

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 2031 Elliot

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 2031 Elliot

Waterway			Bank	Unit Miles
Unit No. 01 Stanislaus River			Left	7.15
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/15/2012 - 5/15/2012			
DWR Inspector	Max Khashchuk			
Accompanied By	Bob Buckmaster			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
1	Earthen Levee	Operations & Maintenance Manuals	WS	A	Ma					°	° 5
										°	°
											DWR ID: DWR_RD2031_01_s_2012_5
2	Earthen Levee	Emergency Supplies & Equipment	WS	A	Ma					°	° 12
										°	°
											DWR ID: DWR_RD2031_01_s_2012_12
3	Earthen Levee	Flood Preparedness & Training	WS	A	Ma					°	° 13
										°	°
											DWR ID: DWR_RD2031_01_s_2012_13
4	0.00 0.07	Earthen Levee	Encroachments	WS M	FE : Fences					37.710001 ° 37.709871 ° 963	
				En	Inspector Comments: Wooden and steel livestock fence and debris limit access to slope.					-121.155391 ° -121.156568 ° Y	
											DWR ID: DWR_RD2031_01_s_2012_963
5	0.06 0.06	Earthen Levee	Vegetation	WS M	V1 : Control annual grass and weeds on the levee slopes and easements.					37.709910 ° 37.709910 ° 22	
				Ma						-121.156647 ° -121.156647 ° Y	
											DWR ID: DWR_RD2031_01_s_2012_22
6	0.08 0.08	Earthen Levee	Vegetation	LS M	V1 : Control annual grass and weeds on the levee slopes and easements.					37.709895 ° 37.709895 ° 14	
				Ma						-121.156687 ° -121.156687 ° Y	
											DWR ID: DWR_RD2031_01_s_2012_14
7	0.15 0.15	Earthen Levee	Encroachments	LS A/W	PI : Pipe					37.708780 ° 37.708780 ° 30	
				En						-121.156830 ° -121.156830 ° Y	
											DWR ID: DWR_RD2031_01_s_2012_30
8	0.34 0.52	Earthen Levee	Encroachments	LS M	FE : Fences					37.706148 ° 37.704030 ° 7	
				En						-121.157975 ° -121.159653 ° Y	
											DWR ID:
9	0.46 0.46	Interior Drainage & Piping Systems	Flap Gates	WS U	Inspector Comments: Canal outlet has no flap gate on waterward side.					37.704772 ° 37.704772 ° 32	
				Ma						-121.158990 ° -121.158990 ° Y	
											DWR ID: DWR_RD2031_01_s_2012_32

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River							Left	7.15	05/15/2012 05/15/2012	Max Khashchuk

L/MR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Start End Photo
	Start	End						Start	End	
10	0.47	0.50	Supplemental	DWR Erosion Survey	WS	M Ma	Inspector Comments: 08/18/2011: No significant changes observed on site. Debris that blocks the irrigation outlet visible. 10/19/2010: No significant changes observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability.08/05/2010: Recommended as a local maintenance issue, per CLRO.08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U".2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank.09/06/2007: Near agricultural diversion; only 3' landside height differential. [2011 Site ID:RD2031U01RM0.48]	37.704740 ° -121.159140 °	37.704740 ° -121.159140 °	1 Y
11	0.52	0.52	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.704050 ° -121.159578 °	37.704050 ° -121.159578 °	2 Y
										DWR ID: DWR_RD2031_01_s_2012_2
12	0.55	0.65	Earthen Levee	Encroachments	LS	U En	BU : Buildings Inspector Comments: Corrals and house on levee slope and crown.	37.703626 ° -121.159714 °	37.702648 ° -121.160700 °	969 Y
										DWR ID: DWR_RD2031_01_s_2012_969
13	0.63	0.63	Earthen Levee	Encroachments	CR	M En	EQ : Equipment Inspector Comments: Vehicles parked on crown of levee.	37.703005 ° -121.160567 °	37.703005 ° -121.160567 °	33 Y
										DWR ID: DWR_RD2031_01_s_2012_33
14	0.64	0.71	Earthen Levee	Encroachments	LS	M En	FE : Fences	37.702814 ° -121.160562 °	37.701875 ° -121.161670 °	4 Y
										DWR ID: DWR_RD2031_01_s_2012_4
15	0.64	0.64	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M Ma	C2 : Regrade the crown roadway for proper drainage.	37.702766 ° -121.160598 °	37.702766 ° -121.160598 °	970 Y
										DWR ID: DWR_RD2031_01_s_2012_970
16	0.65	0.65	Earthen Levee	Encroachments	LS	M En	DE : Debris Inspector Comments: Tractor wheels on slope of landside levee.	37.702643 ° -121.160867 °	37.702643 ° -121.160867 °	35 Y
										DWR ID: DWR_RD2031_01_s_2012_35
17	0.67	0.70	Earthen Levee	Encroachments	LS	M En	FE : Fences	37.702457 ° -121.161052 °	37.702250 ° -121.161418 °	36 Y
										DWR ID: DWR_RD2031_01_s_2012_36
18	0.75	0.78	Earthen Levee	Encroachments	LS	M En	AD : Agricultural Ditch	37.701566 ° -121.161852 °	37.701178 ° -121.162086 °	972 Y
										DWR ID: DWR_RD2031_01_s_2012_972

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Stanislaus River								Left	7.15	05/15/2012 05/15/2012	Max Khashchuk	
LMR No	Levee Mile		Category	Item	* Location	** Rating	+ Issue Type	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End						Start	End	Photo		
19	0.81	0.81	Earthen Levee	Encroachments	LS Ma	M	PI : Pipe Inspector Comments: PVC pipe present and obstructing drain pipe.	37.700799 ° -121.162418 °	37.700799 ° -121.162418 °	Y	20	
											DWR ID: DWR_RD2031_01_s_2012_20	
20	0.89	0.89	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	M	C3 : Add appropriate gravel or road base. Grade and compact.	37.699980 ° -121.163368 °	37.699980 ° -121.163368 °	Y	6	
											DWR ID: DWR_RD2031_01_s_2012_6	
21	1.27	1.27	Earthen Levee	Encroachments	WSA/W Ma	M	PI : Pipe Inspector Comments: Irrigation intake pipe.	37.699536 ° -121.169924 °	37.699536 ° -121.169924 °	Y	11	
											DWR ID: DWR_RD2031_01_s_2012_11	
22	1.58	1.58	Earthen Levee	Erosion / Bank Caving	LS Ma	M	E1 : Note and monitor erosion site. Inspector Comments: Erosion is active around the irrigation standpipe.	37.698776 ° -121.174327 °	37.698776 ° -121.174327 °	Y	3	
											DWR ID: DWR_RD2031_01_s_2012_3	
23	1.60	1.60	Earthen Levee	Erosion / Bank Caving	WS Ma	M	E1 : Note and monitor erosion site. Inspector Comments: Active erosion is occurring around irrigation inlet.	37.698610 ° -121.174598 °	37.698610 ° -121.174598 °	Y	8	
											DWR ID: DWR_RD2031_01_s_2012_8	
24	1.65	1.65	Earthen Levee	Erosion / Bank Caving	LS Ma	M	E1 : Note and monitor erosion site. Inspector Comments: Active erosion around irrigation inlet in levee prism.	37.698208 ° -121.175400 °	37.698208 ° -121.175400 °	Y	9	
											DWR ID: DWR_RD2031_01_s_2012_9	
25	1.88	1.88	Earthen Levee	Encroachments	WS En	M	DE : Debris Inspector Comments: Several bails of hay at toe of levee.	37.695867 ° -121.177638 °	37.695867 ° -121.177638 °	Y	37	
											DWR ID: DWR_RD2031_01_s_2012_37	
26	2.05	2.05	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	M	C2 : Regrade the crown roadway for proper drainage.	37.693310 ° -121.177587 °	37.693310 ° -121.177587 °	Y	38	
											DWR ID: DWR_RD2031_01_s_2012_38	
27	2.35	2.35	Earthen Levee	Encroachments	LS En	C	CR : Crops Inspector Comments: Turnouts for this field at levee slope.	37.689221 ° -121.178980 °	37.689221 ° -121.178980 °	Y	16	
											DWR ID: DWR_RD2031_01_s_2012_16	
28	2.47	2.47	Earthen Levee	Encroachments	WSA/W Ma	M	PI : Pipe	37.687953 ° -121.180244 °	37.687953 ° -121.180244 °	Y	15	
											DWR ID: DWR_RD2031_01_s_2012_15	
29	3.11	3.11	Earthen Levee	Encroachments	WSA/W Ma	M	PI : Pipe	37.688296 ° -121.190890 °	37.688296 ° -121.190890 °	Y	21	
											DWR ID: DWR_RD2031_01_s_2012_21	
30	3.29	3.29	Earthen Levee	Encroachments	WSA/W Ma	M	PI : Pipe Inspector Comments: Irrigation intake	37.690556 ° -121.192451 °	37.690556 ° -121.192451 °	Y	17	
											DWR ID: DWR_RD2031_01_s_2012_17	
31	3.55	3.55	Earthen Levee	Encroachments	WSA/W Ma	M	PI : Pipe Inspector Comments: Drain to channel	37.690864 ° -121.195990 °	37.690864 ° -121.195990 °	Y	24	
											DWR ID: DWR_RD2031_01_s_2012_24	

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start
	Levee Mile	Unit No.						Start	End	
32	3.64	3.64	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Irrigation intake.	37.690280 °	37.690280 °	28
								-121.197447 °	-121.197447 °	
										DWR ID: DWR_RD2031_01_s_2012_28
33	3.68	4.33	Earthen Levee	Vegetation	CR	M	V1 : Control annual grass and weeds on the levee slopes Ma	°	°	39
								°	°	
										DWR ID: DWR_RD2031_01_s_2012_39
34	3.71	3.71	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Irrigation intake on waterside berm.	37.689783 °	37.689783 °	29
								-121.198562 °	-121.198562 °	
										DWR ID: DWR_RD2031_01_s_2012_29
35	3.72	3.72	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Irrigation intake	37.689742 °	37.689742 °	19
								-121.198695 °	-121.198695 °	Y
										DWR ID: DWR_RD2031_01_s_2012_19
36	4.03	4.03	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Drainage outlet	37.690937 °	37.690937 °	31
								-121.203319 °	-121.203319 °	
										DWR ID: DWR_RD2031_01_s_2012_31
37	4.38	4.38	Earthen Levee	Encroachments	CR A/W	PI : Pipe En	Inspector Comments: PG&E Pipe	°	°	40
								°	°	
										DWR ID: DWR_RD2031_01_s_2012_40
38	4.45	4.45	Earthen Levee	Encroachments	WSA/W	PI : Pipe Ma	Inspector Comments: Two irrigation intakes	37.686376 °	37.686376 °	23
								-121.207935 °	-121.207935 °	
										DWR ID: DWR_RD2031_01_s_2012_23
39	4.50	4.50	Earthen Levee	Vegetation	WS	M	V6 : Landscaping En	°	°	41
								°	°	
										DWR ID: DWR_RD2031_01_s_2012_41
40	4.50	4.50	Earthen Levee	Trim / Thin Trees	WS	C	Inspector Comments: Fallen limb on waterside slope and crown.	37.685851 °	37.685851 °	10
					Ma			-121.208522 °	-121.208522 °	
										DWR ID: DWR_RD2031_01_s_2012_10
41	4.60	4.80	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	37.684474 °	37.682167 °	982
								-121.208447 °	-121.209098 °	
										DWR ID: DWR_RD2031_01_s_2012_982
42	5.35	5.35	Earthen Levee	Vegetation	WS	U	V6 : Landscaping En	37.678363 °	37.678363 °	25
								-121.217375 °	-121.217375 °	
										DWR ID: DWR_RD2031_01_s_2012_25
43	5.41	5.41	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	37.677641 °	37.677641 °	983
								-121.217499 °	-121.217499 °	
										DWR ID: DWR_RD2031_01_s_2012_983
44	5.68	5.68	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	37.673718 °	37.673718 °	984
								-121.217609 °	-121.217609 °	
										DWR ID: DWR_RD2031_01_s_2012_984
45	5.72	5.72	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	37.673158 °	37.673158 °	985
								-121.217766 °	-121.217766 °	
										DWR ID: DWR_RD2031_01_s_2012_985
46	5.94	5.94	Earthen Levee	Encroachments	LS	A/W	PI : Pipe Ma	37.670341 °	37.670341 °	26
								-121.219224 °	-121.219224 °	
										DWR ID: DWR_RD2031_01_s_2012_26

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	05/15/2012 05/15/2012	Max Khashchuk

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.07
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Fall 2009 photo looking upstream at beginning of unit 1. Water side to the left.	
mkhashch_s_20120501_039.jpg	



Levee Mile Report Line	5
Start Levee Mile	0.06
End Levee Mile	0.06
Location	Water Side
Category	Earthen Levee
Item	Vegetation
View of tall grass blocking visibility on both slopes of levee, facing downstream. 05/02/2012	
mkhashch_s_20120510_075.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Land Side
Category	Earthen Levee
Item	Vegetation
View of tall grass blocking visibility on both slopes of levee, facing downstream. 05/02/2012	
mkhashch_s_20120510_074.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	05/15/2012 05/15/2012	Max Khashchuk

Levee Mile Report Line	7
Start Levee Mile	0.15
End Levee Mile	0.15
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of pipe in landward slope of levee, facing downstream. 05/02/2012	mkhashch_s_20120510_076.jpg



Levee Mile Report Line	8
Start Levee Mile	0.34
End Levee Mile	0.52
Location	Land Side
Category	Earthen Levee
Item	Encroachments
05/10/2011 Fence on waterside prevents access to waterside slope.	mkhashch_s_20120501_031.jpg



Levee Mile Report Line	9
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Flap Gates
View of canal outlet on waterward slope facing downstream. 05/02/2012	mkhashch_s_20120510_077.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	05/15/2012 05/15/2012	Max Khashchuk

Levee Mile Report Line	10
Start Levee Mile	0.47
End Levee Mile	0.50
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Looking downstream of the site.	
mkhashch_s_20120501_025.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.47
End Levee Mile	0.50
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
Looking downstream of the site. The irrigation outlet operating. Debris at the outlet visible	
mkhashch_s_20120501_026.jpg	



Levee Mile Report Line	10
Start Levee Mile	0.47
End Levee Mile	0.50
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
View of the current condition of the levee slope just above the irrigation outlet.	
mkhashch_s_20120501_027.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	05/15/2012 05/15/2012	Max Khashchuk

Levee Mile Report Line	10
Start Levee Mile	0.47
End Levee Mile	0.50
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the site.

mhashch_s_20120501_028.jpg



Levee Mile Report Line	11
Start Levee Mile	0.52
End Levee Mile	0.52
Location	Water Side
Category	Earthen Levee
Item	Vegetation

10/26/2011 Updated photo of waterside vegetation.

mhashch_s_20120501_029.jpg



Levee Mile Report Line	12
Start Levee Mile	0.55
End Levee Mile	0.65
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Fall 2009 photo of livestock pens and house on landside slope.

mhashch_s_20120501_040.jpg



* Location LS : Land Side WS : Water Side CR : Crown
--

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	05/15/2012 05/15/2012	Max Khashchuk

Levee Mile Report Line	13
Start Levee Mile	0.63
End Levee Mile	0.63
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of vehicles parked on crown of levee, facing upstream. 05/02/2012

mkhashch_s_20120510_078.jpg



Levee Mile Report Line	16
Start Levee Mile	0.65
End Levee Mile	0.65
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of tractor wheels on landward slope.
05/02/2012

mkhashch_s_20120510_080.jpg



Levee Mile Report Line	19
Start Levee Mile	0.81
End Levee Mile	0.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments

05/10/2011 PVC pipe pieces are obstructing opening to drain pipe.

mkhashch_s_20120501_037.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	05/15/2012 05/15/2012	Max Khashchuk

Levee Mile Report Line	19
Start Levee Mile	0.81
End Levee Mile	0.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments
10/26/2011 Updated photo of PVC pipe pieces obstructing drain pipe, issue remains from Spring 2011 inspection.	
mkhashch_s_20120501_038.jpg	



Levee Mile Report Line	21
Start Levee Mile	1.27
End Levee Mile	1.27
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Irrigation intake pump and pipe.	
mkhashch_s_20120501_035.jpg	



Levee Mile Report Line	22
Start Levee Mile	1.58
End Levee Mile	1.58
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
10/26/2011 Active erosion into the levee prism around irrigation standpipe.	
mkhashch_s_20120501_030.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	05/15/2012 05/15/2012	Max Khashchuk

Levee Mile Report Line	23
Start Levee Mile	1.60
End Levee Mile	1.60
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
10/26/2011 Active erosion shown around irrigation inlet.	
mkhashch_s_20120501_032.jpg	



Levee Mile Report Line	24
Start Levee Mile	1.65
End Levee Mile	1.65
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
10/26/2011 Active erosion into levee prism around irrigation inlet.	
mkhashch_s_20120501_033.jpg	



Levee Mile Report Line	25
Start Levee Mile	1.88
End Levee Mile	1.88
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of hay bails at toe of levee on waterward side, facing downstream. 05/02/2012	
mkhashch_s_20120510_079.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.15	05/15/2012 05/15/2012	Max Khashchuk

Levee Mile Report Line	35
Start Levee Mile	3.72
End Levee Mile	3.72
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Irrigation intake on waterside berm.	
mkhashch_s_20120501_036.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating	A : Acceptable	N : Not Inspected/Rated	+ Issue Type
	M : Minimally Acceptable	C : Corrected	Ma : Maintenance Deficiency
	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	Ob : Design & System Obsolescence
			En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Reclamation District No. 2031 Elliot

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Right	6.04
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/15/2012 - 5/24/2012			
DWR Inspector	Max Khashchuk			
Accompanied By	Mr. Bob Buckmaster RD 2031			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start
	Levee Mile	Start						Photo	End	
1	0.22	0.22	Earthen Levee	Encroachments	LS A/W	PI : Pipe Ma	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Tree limbs obstruct visibility of landside toe.	37.658843 ° -121.234271 °	37.658843 ° -121.234271 °	3 Y
										DWR ID: DWR_RD2031_02_s_2012_3
2	0.63	0.63	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Tree limbs obstruct visibility of landside toe.	37.654585 ° -121.231719 °	37.654585 ° -121.231719 °	10 Y
										DWR ID: DWR_RD2031_02_s_2012_10
3	1.36	1.36	Earthen Levee	Encroachments	LS En	U	BU : Buildings	37.648898 ° -121.221621 °	37.648898 ° -121.221621 °	4 Y
										DWR ID: DWR_RD2031_02_s_2012_4
4	1.45	1.45	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping Inspector Comments: Wild rose bush on landside slope.	37.647708 ° -121.220873 °	37.647708 ° -121.220873 °	965 Y
										DWR ID: DWR_RD2031_02_s_2012_965
5	3.00	3.60	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level. Inspector Comments: Obstructive trees and vegetation along highway are on the landside slope of the levee.	37.637626 ° -121.207191 °	37.638301 ° -121.196465 °	966 Y
										DWR ID: DWR_RD2031_02_s_2012_966
6	3.88	3.88	Earthen Levee	Encroachments	WSA/W En	Pi	W : Pipe Inspector Comments: Pipe has a flapgate on waterside.	37.637927 ° -121.191592 °	37.637927 ° -121.191592 °	18 Y
										DWR ID: DWR_RD2031_02_s_2012_18
7	3.89	3.89	Earthen Levee	Vegetation	LS Ma	M	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Tall grass at toe should be removed for visibility.	37.637715 ° -121.191516 °	37.637715 ° -121.191516 °	967 Y
										DWR ID: DWR_RD2031_02_s_2012_967
8	4.23	4.23	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Burrows are already marked to take corrective action. Several burrows in this area. Fall 2011, burrows are still marked with old flags, burrows appear to still be active.	37.632974 ° -121.190745 °	37.632974 ° -121.190745 °	9 Y
										DWR ID: DWR_RD2031_02_s_2012_9
9	4.23	4.74	Earthen Levee	Encroachments	LS Ma	M	AT : Agricultural tilling Inspector Comments: Farming activity up to the levee toe.	37.632974 ° -121.190745 °	37.630653 ° -121.182937 °	20 Y
										DWR ID: DWR_RD2031_02_s_2012_20
10	4.28	4.28	Earthen Levee	Animal Control	LS Ma	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Fall 2011 inspection, burrows are flagged, but appear to still be active,	37.632220 ° -121.190380 °	37.632220 ° -121.190380 °	11 Y
										DWR ID: DWR_RD2031_02_s_2012_11

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
---	---

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
11	4.33	4.37	Supplemental DWR Erosion Survey	WSA/W	Ma	Inspector Comments: 08/18/2011: No significant changes observed on the site. Dead trees and animal activities visible. The closest point of the erosion site to the levee toe is about 100 ft. 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2011 Site ID:RD2031U02RM78.7]	37.631716 °	37.631716 °	1		
								-121.189370 °	-121.189370 °	Y	
12	4.39	4.39	Earthen Levee	Animal Control	LS	M	A1 : Exterminate rodents and backfill and compact or grout burrows.	37.631505 °	37.631505 °	19	
					Ma			-121.188755 °	-121.188755 °	Y	
DWR ID: DWR_RD2031_02_s_2012_19											
13	4.75	4.75	Earthen Levee	Encroachments	LS	A/W	PI : Pipe	37.630835 °	37.630835 °	12	
					Ma		Inspector Comments: 14" pipe through the levee concrete headwall on landside, waterside is submerged ditch. No gate on landside. This does not threaten the structural integrity of the levee, but it does appear to allow for the free flow of water through the levee.	-121.182411 °	-121.182411 °	Y	
DWR ID: DWR_RD2031_02_s_2012_12											
14	4.82	4.82	Earthen Levee	Animal Control	CR	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.630837 °	37.630837 °	17	
					Ma			-121.181010 °	-121.181010 °	Y	
DWR ID: DWR_RD2031_02_s_2012_17											
15	5.33	5.33	Earthen Levee	Animal Control	LS	U	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.630799 °	37.630799 °	13	
					Ma		Inspector Comments: This is a significant burrow with 3-5 cubic feet of fresh material present, There is a matching burrow on the water side, also with fresh material.	-121.171802 °	-121.171802 °	Y	
DWR ID: DWR_RD2031_02_s_2012_13											
16	5.46	5.46	Earthen Levee	Animal Control	LS	M	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.630800 °	37.630800 °	14	
					Ma		Inspector Comments: Multiple burrows, some appear to be active, others inactive.	-121.169596 °	-121.169596 °	Y	
DWR ID: DWR_RD2031_02_s_2012_14											
17	5.51	5.51	Earthen Levee	Seepage / Sandboils	LS	U		37.630485 °	37.630485 °	8	
					Ob			-121.168648 °	-121.168648 °	Y	
DWR ID: DWR_RD2031_02_s_2012_8											
18	5.54	5.54	Earthen Levee	Seepage / Sandboils	LS	U	Inspector Comments: 10/26/2011 Possible sand boil observed. Note that there is damage to the concrete channel directly across on the waterside of the levee from this issue. FIR filed for this issue, FIR no. 4422.	37.630797 °	37.630797 °	15	
					Ob			-121.168204 °	-121.168204 °	Y	
DWR ID: DWR_RD2031_02_s_2012_15											

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
---	---

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End					Start	End	Photo			
19	5.65	5.65	Earthen Levee	Erosion / Bank Caving	LS U Ma	Inspector Comments: Active erosions occurring. Appears to be a hole behind the levee penetrating into the prism. Cracks observed above the hole on the levee slope. The waterside of the levee is a concrete lined MID irrigation canal.	37.630794 °	37.630794 °	16	-121.166179 °	-121.166179 ° Y	
20	5.98	5.98	Earthen Levee	Encroachments	WSA/W PI : Pipe	En	Inspector Comments: Gas Pipeline	37.630630 °	37.630630 °	2	-121.159720 °	-121.159720 ° Y

DWR ID: DWR_RD2031_02_s_2012_16

DWR ID: DWR_RD2031_02_s_2012_2

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

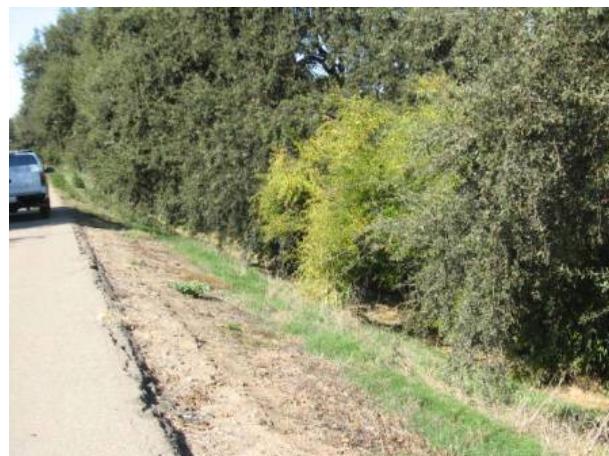
Levee Mile Report Line	1
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Drainage discharge pumps and housing on steep waterside slope.	
mhashch_s_20120501_045.jpg	



Levee Mile Report Line	1
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments
10/26/2011 Flap gates on landside.	
mhashch_s_20120501_046.jpg	



Levee Mile Report Line	2
Start Levee Mile	0.63
End Levee Mile	0.63
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
10/26/2011 Trees on landside need to be trimmed up 5' above the ground to allow for visibility of the landside slope and toe.	
mhashch_s_20120501_049.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	3
Start Levee Mile	1.36
End Levee Mile	1.36
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Small structure on levee slope.	
mkhashch_s_20120501_047.jpg	



Levee Mile Report Line	4
Start Levee Mile	1.45
End Levee Mile	1.45
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Wild rose on levee slope.	
mkhashch_s_20120501_060.jpg	



Levee Mile Report Line	6
Start Levee Mile	3.88
End Levee Mile	3.88
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of pipe with flap gate penetrating levee at waterside toe. 05/24/2012	
mkhashch_s_20120525_409.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	7
Start Levee Mile	3.89
End Levee Mile	3.89
Location	Land Side
Category	Earthen Levee
Item	Vegetation
10/26/2011 Vegetation on landside obstructs visibility of the landside slope and toe.	
mkhashch_s_20120501_061.jpg	



Levee Mile Report Line	8
Start Levee Mile	4.23
End Levee Mile	4.23
Location	Land Side
Category	Earthen Levee
Item	Animal Control
10/26/2011 Typical, burrow in area, several burrows at this location, many of them were flagged prior to the Spring 2011 inspection.	
mkhashch_s_20120501_048.jpg	



Levee Mile Report Line	9
Start Levee Mile	4.23
End Levee Mile	4.74
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of agricultural tilling up to landside toe looking west from LM 4.47. 05/24/2012	
mkhashch_s_20120525_413.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	10
Start Levee Mile	4.28
End Levee Mile	4.28
Location	Land Side
Category	Earthen Levee
Item	Animal Control
10/26/2011 Burrows that appear to be active, cleaned corn cob at entrance of one burrow.	
mkhashch_s_20120501_050.jpg	



Levee Mile Report Line	10
Start Levee Mile	4.28
End Levee Mile	4.28
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of active borrow hole at landside toe. 05/24/2012	
mkhashch_s_20120525_410.jpg	



Levee Mile Report Line	10
Start Levee Mile	4.28
End Levee Mile	4.28
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of several active burrow holes at landside toe. 05/24/2012	
mkhashch_s_20120525_411.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	11
Start Levee Mile	4.33
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

From the berm looking upstream. This the closest point to the levee toe.

mhashch_s_20120501_041.jpg



Levee Mile Report Line	11
Start Levee Mile	4.33
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of adjacent bank affected by erosion. The loose sand visible on the site.

mhashch_s_20120501_042.jpg



Levee Mile Report Line	11
Start Levee Mile	4.33
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream. The starting point of the protection visible.

mhashch_s_20120501_043.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	11
Start Levee Mile	4.33
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey
A close look of the erosion. The loose sandy material visible.	
mkhashch_s_20120501_044.jpg	



Levee Mile Report Line	12
Start Levee Mile	4.39
End Levee Mile	4.39
Location	Land Side
Category	Earthen Levee
Item	Animal Control
View of several active burrow holes at landside hinge and toe. 05/24/2012	
mkhashch_s_20120525_412.jpg	



Levee Mile Report Line	13
Start Levee Mile	4.75
End Levee Mile	4.75
Location	Land Side
Category	Earthen Levee
Item	Encroachments
10/26/2011 Photo shows landside of 14" PVC pipe through levee. No flap gate or closure device observed.	
mkhashch_s_20120501_051.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	14
Start Levee Mile	4.82
End Levee Mile	4.82
Location	Crown
Category	Earthen Levee
Item	Animal Control

View of rodent burrow in levee crown. 05/15/2012

mkhashch_s_20120529_417.jpg



Levee Mile Report Line	15
Start Levee Mile	5.33
End Levee Mile	5.33
Location	Land Side
Category	Earthen Levee
Item	Animal Control

10/26/2011 Landside photo of large burrow, 3-5 cubic ft of material shown.

mkhashch_s_20120501_052.jpg



Levee Mile Report Line	15
Start Levee Mile	5.33
End Levee Mile	5.33
Location	Land Side
Category	Earthen Levee
Item	Animal Control

10/26/2011 Waterside burrow, located almost directly across from large burrow in previous photo. Note, material from burrow is being wetted by the canal water.

mkhashch_s_20120501_053.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	15
Start Levee Mile	5.33
End Levee Mile	5.33
Location	Land Side
Category	Earthen Levee
Item	Animal Control
10/26/2011 Photo taken from location of waterside burrow to show relationship to landside burrow, which can be noted by fresh material seen over the levee crown approximately 2' to the left in this photo.	
mkhashch_s_20120501_054.jpg	



Levee Mile Report Line	16
Start Levee Mile	5.46
End Levee Mile	5.46
Location	Land Side
Category	Earthen Levee
Item	Animal Control
10/26/2011 Multiple burrows shown on the landside.	
mkhashch_s_20120501_055.jpg	



Levee Mile Report Line	17
Start Levee Mile	5.51
End Levee Mile	5.51
Location	Land Side
Category	Earthen Levee
Item	Seepage / Sandboils
View of seepage at toe; clear water present at the saturated spot. 05/15/2012	
mkhashch_s_20120529_416.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

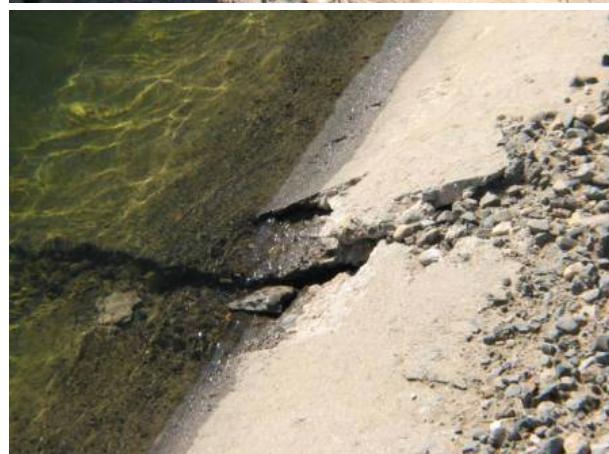
Levee Mile Report Line	18
Start Levee Mile	5.54
End Levee Mile	5.54
Location	Land Side
Category	Earthen Levee
Item	Seepage / Sandboils
10/26/2011 First of three photos showing possible sand boil, appears to be a deposition of material as evidenced by the shadows on the upper side of the boil.	
mkhashch_s_20120501_056.jpg	



Levee Mile Report Line	18
Start Levee Mile	5.54
End Levee Mile	5.54
Location	Land Side
Category	Earthen Levee
Item	Seepage / Sandboils
10/26/2011 Photo shows location of boil relative to the levee.	
mkhashch_s_20120501_057.jpg	



Levee Mile Report Line	18
Start Levee Mile	5.54
End Levee Mile	5.54
Location	Land Side
Category	Earthen Levee
Item	Seepage / Sandboils
10/26/2011 This concrete damage is located directly across the levee crown from the boil location.	
mkhashch_s_20120501_058.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	6.04	05/15/2012 05/24/2012	Max Khashchuk

Levee Mile Report Line	18
Start Levee Mile	5.54
End Levee Mile	5.54
Location	Land Side
Category	Earthen Levee
Item	Seepage / Sandboils
View of the erosion site; no seepage visible at time of inspection. 05/15/2012	
mkhashch_s_20120529_415.jpg	



Levee Mile Report Line	19
Start Levee Mile	5.65
End Levee Mile	5.65
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
10/23/2011 Erosion located on the landside of the levee. Cracking above the hole in the levee slope and hole extends into the levee prism.	
mkhashch_s_20120501_059.jpg	



Levee Mile Report Line	20
Start Levee Mile	5.98
End Levee Mile	5.98
Location	Water Side
Category	Earthen Levee
Item	Encroachments
View of gas pipeline penetrating levee. 05/15/2012	
mkhashch_s_20120529_414.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement